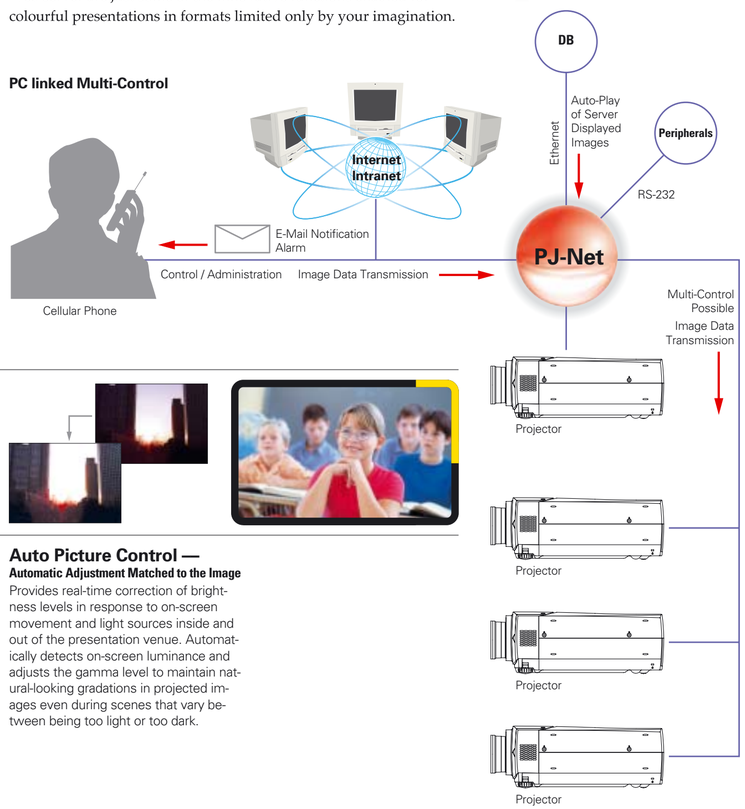
PJ-Net Organizer Plus

the network toolbox loaded with cutting-edge functions

The optional PJ-Net Organizer Plus (sold separately) is easily connected to allow control and administration of projector functions over a computer network. Remote transmission of images, multi-control of a series of projectors, and auto-play of images loaded from a Web server are just some of the innovative functions enabled for colourful presentations in formats limited only by your imagination.

PC linked Multi-Control



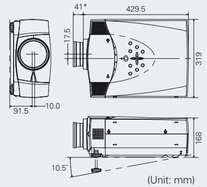
Auto Picture Control —

Automatic Adjustment Matched to the Image

Provides real-time correction of brightness levels in response to on-screen movement and light sources inside and out of the presentation venue. Automatically detects on-screen luminance and adjusts the gamma level to maintain natural-looking gradations in projected images even during scenes that vary between being too light or too dark.

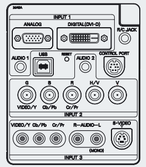
PLC-XP55/XP50

External dimensions

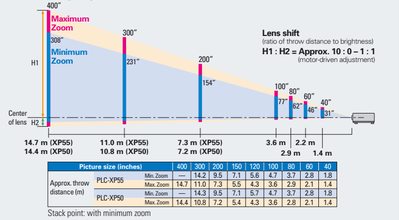


*PLC-XP55 Only

Interface



Variable projection size



Picture size (inches)			400	300	200	150	120	100	80	60	40
Approx. throw distance (m)	PLC-XP55	Min. Zoom	—	14.2	9.5	7.1	5.6	4.7	3.7	2.8	1.8
		Max. Zoom	14.7	11.0	7.3	5.5	4.3	3.6	2.9	2.1	1.4
	PLC-XP50	Min. Zoom	—	14.3	9.5	7.1	5.7	4.7	3.7	2.8	1.8
		Max. Zoom	14.4	10.8	7.2	5.4	4.3	3.6	2.8	2.1	1.4

Stack point: with minimum zoom

Specifications

Model number	PLC-XP55	PLC-XP50
Projector type	LCD colour data projector	
Screen size	Adjustable from 31 inches to 400 inches	
Picture brightness	4,500 lm	3,700 lm
Contrast ratio	1,100:1	850:1
Fan noise	35 dBA*1	
Horizontal resolution	800 TV lines (HDTV)	
Throw distance	From 1.4 m–14.7 m (100" at 3.6–4.7 m)	From 1.4 m–14.4 m (100" at 3.6–4.7 m)
LCD panel system	Three 1.3" TFT p–Si active matrix type	
Panel resolution	1,024 x 768 dots	
Number of pixels	2,359,296 (786,432 x 3)	
Projection system	X-type prism system	
Projection lens	F/1.7–2.0, f = 48.2–62.6 mm	F/1.8–2.1, f = 48.4–62.8 mm
Projection lamp	300 W NSH lamp	
Amplifier	Stereo, 2 W rms	
Speaker	2 pieces (ø50 mm)	
Lens shift (U/D ratio)	10.0–1:1	
Laser Beam — Laser Type	Class II	
Laser Beam — Wavelength	650 ±20 nm	
Laser Beam — Output	1 mW max.	
Dimensions	319 (W) x 168 (H) x 429.5*2 (D) mm	
Net weight	9.2 kg (20.3 lbs.)	8.7 kg (19.2 lbs.)
Rated power supply	100–240 V AC, 50 Hz/60 Hz auto change	
Scanning frequency	Automatic frequency control H sync: 15–100 kHz, V sync: 50–100 Hz Dot clock: 180 MHz	
Colour systems	PAL/SECAM/NTSC/NTSC-4.43/PAL-M/PAL-N	
Terminals — Input 1	Computer input: 1 mini D-sub 15-pin (Analog RGB) or 1 DVI-D (Digital)	Audio: 1 stereo mini jack
Terminals — Input 2	Computer/Video input: 5 BNC (Video or Y/Cb/Cr or Y/Pb/Pr or RGBHV)	Audio: 1 stereo mini jack
Terminals — Input 3	Video input: 3 RCA (Video/Y-Cb/Pb-Cr/Pr), 1 S-Video	Audio: 2 RCA
Terminals — Control I/O, others	Control port: Mini DIN 8-pin, USB Type B Wired remote control: stereo mini jack	
Terminals — Expansion port (for POA-PN02)	Yes	
Power consumption		
Power consumption — Normal mode	450 W	
Power consumption — Eco mode	310 W	
Main accessories	• Wired remote jack (Mini jack) • Wireless/Wired Remote Control Unit (Air pad remote) • AC power supply cord • Computer cable (VGA) • MAC adaptor • PC control cable (PSZ/MAC/SERIAL) • Dust cover • Lens cover • Owner's manual	

*1Eco mode: Brightness is approximately 80 percent of normal levels. *2Excluding protrusions

Safety Precautions

• Do not install the LCD projector in areas exposed to water, humidity, dust, oil or smoke or in close proximity to heat sources. Make sure the heat vents are not blocked. Fire, electrical shock or unit malfunction may result if the above precautions are neglected. • Do not look through the lens while projecting as damage to the eyes could result. Take special care when children are close by. • Do not look at the laser beam coming out of the remote control unit or direct the laser beam toward a person. Direct contact with the laser beam may cause damage to the eyes.

Remarks

• Spare LCD projector parts are kept in stock at least for eight years after the product is discontinued. • LCD panel manufacturing requires extremely high-precision technology with pixels having a 99.99% quality control rating. However, there does exist a 0.01% or smaller possibility of dead pixels or constantly lit pixels. • Please note that product colours in the brochure may differ slightly from those of actual products. • All screen pictures in the catalog are simulated. • All company and product names are the trademarks or registered trademarks of respective owners. • Product appearance and specifications subject to change without notice.

Caution: please consult the instruction manual to ensure safe and proper operation of the product.

PJ-Net Organizer Plus POA-PN02

Product specifications

LAN interface	Applicant regulation IEEE802.3 (10Base-T) IEEE802.3u (100Base-TX)
	Data transfer speed 10 Mbps/100 Mbps
	Data transfer mode Half duplex/Full duplex
	Terminal 8-pin modular (RJ-45)
Network protocol	TCP/IP specification TCP/IP
Serial interface	RS-232C
	Baud rate 0.3/1.2/2.4/4.8/9.6/19.2/28.8/57.6/115.2 kbps
	Flow control Hardware flow control (RTS/CTS, Xon/Xoff)
	Parity check Odd/Even
	Terminal D-sub 9-pin (male)
Power source	Supplied from the projector
Power consumption	3.0 W
Dimensions (W x H x D)	105 x 33.6 x 132 mm
Weight	258 g (0.57 lbs.)
Built-in battery	Lithium battery, Type CR2032, 3.0 V
Operating temperature	41°F – 95°F (5°C – 35°C)
Storage temperature	14°F – 140°F (-10°C – 60°C)

Note: Specifications are subject to change without notice.

Computer, network and application requirements for PJ-Net Organizer Plus

- OS: Windows® 95/98/Me/NT4.0/2000/XP, Mac OS 8.0 or later
- Network environment: Ethernet in normal operation and TCP/IP protocol capability
- Computer environment: 10 Base – T/100 Base – XT network card
- Web browser: Internet Explorer 5.0 or later, Netscape® Navigator 4.7 or later
- Internet mail software: Microsoft® Outlook/Outlook Express, Netscape® Mail

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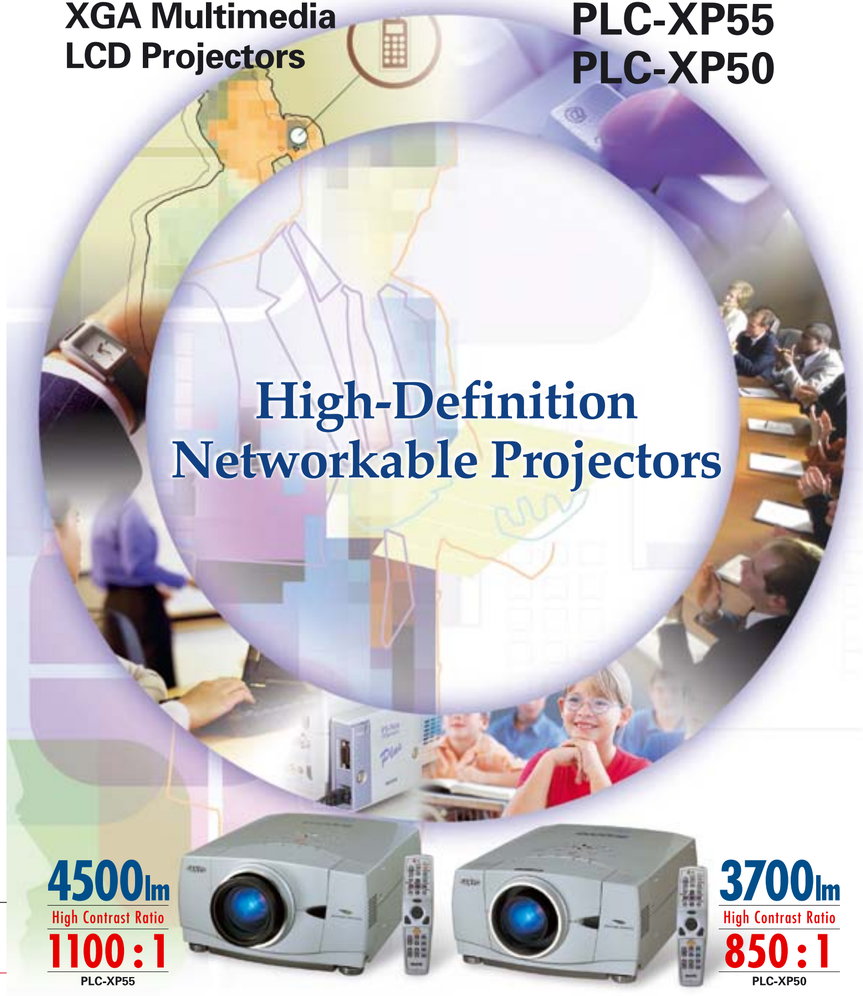
SML036

SANYO

XGA Multimedia LCD Projectors

PLC-XP55
PLC-XP50



High-Definition Networkable Projectors

4500lm
High Contrast Ratio
1100 : 1
PLC-XP55

3700lm
High Contrast Ratio
850 : 1
PLC-XP50

High-contrast, high-definition, and network-enabled functions to satisfy the needs of professional caliber presentations

The pictured product is the PLC-XP55

PLC-XP55/XP50

with PJ-Net Organizer Plus (option)

SXGA (1400×1050) | Multi Color Dynamo | 400 inch (1.1–10.2m) | 2700lm (XP55) / 2200lm (XP50) | Long Lasting | MOTOR ZOOM | 4500lm (XP55) / 3700lm (XP50) | 3D AUCC | Keystone Correction | 7x7 times Digital Zoom | HDTV DVD | PAN MEMORY | ECO MODE | WIDE 1100:1 (XP55) / WIDE 850:1 (XP50) | USB | DVI-D | Lamp Options | 3D DIGITAL Progressive | 3D DIGITAL 1080i

* U/D/L/R (Up/down left/right keystone correction)

High definition and contrast for brighter, more vivid images that will stay with your audience longer.

Captivate your audience with state-of-the-art picture quality powered by a class-topping 4500 lm*1 of brightness. Take control with network connectivity and advanced tools for administering one or a series of projectors by connecting to the optional PJ-Net Organizer Plus.*2 Meeting the exacting needs of professionals in a diversity of fields spanning the spheres of education, entertainment and advertising, wherever these projectors go you'll find them enhancing the capacity for communication as multimedia tools lighting the way to the infocentric presentations of tomorrow.

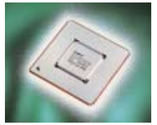
*1 PLC-XP55 only.
*2 Sold separately.

4500 lm for bigger, brighter pictures without the screendoor effect (PLC-XP55)

Projectors made ideal for large meeting rooms, conference halls or classrooms by the high-performance of a 300-watt short-arc NSH lamp light source enhanced by the built-in microlenses of a trio of 1.3-inch XGA polysilicon liquid crystal panels to achieve an on-screen brightness level of 4500 lm.

New progressive scanning for the clearest and smoothest images possible

Intelligently tracking on-screen activity with split-second precision, the newly developed progressive scan circuitry is paired with cross-colour filtering for superior diagonal resolution to deliver images that are jaggy-free, smooth and super detailed even for video and film sources. With correspondence to 2–3 pull-down, movie sources also can be projected with high picture quality. In addition, progressive conversion is possible for 1080i, so that HDTV can be projected with even higher picture quality.



Imaging Technologies for Greater Sharpness and Clarity

Selection and Calibration of Individual Colours

The Colour Management System allows manual adjustment of parameters such as level, phase, and gamma for consistently vivid and faithful colour reproduction. It also allows you to select and change the shading of an individual colour to achieve a more natural balance without affecting other colours.

Specific colour adjustment

Truer skin tones

High-Contrast Optical System for Superior Sharpness and Solid Blacks

Polarized scattering is corrected as the light passes through the panels, ensuring high-contrast on-screen colour reproduction with solid black. A contrast ratio of 1100:1* ensures that these projectors offer more natural image reproduction with finer gradation. * PLC-XP50 contrast ratio is 850:1.

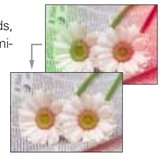
Intelligent Sharpness Control

This leading-edge signal processing technology analyses the incoming signal and controls the amount of correction accordingly. The result is sharp yet natural-looking images.

Digital Technology Realizing Superior Quality for Projected Images

3D AUCC for Big Screen Images with Uniformity of Colour and Natural Gradation

Compared with conventional methods, SANYO's new 3D Automatic Uniformity Correction Control (AUCC) offers more than ten times the level of control over colour problems caused by lack of brightness conformity. This helps to ensure natural-looking gradation.



3D Digital Y/C Separation Circuit.

This circuit enhances resolution and reduces noise on moving images to produce a clearer, finer picture.

3D Digital Noise Reduction

Luminance noise and chrominance noise in the video signal are filtered out by this circuit to ensure finer on-screen colours without flicker.

New Design for Easier Setting Up

One-Touch Interchangeable Lens System

Including short and long focus types, a total of four optional lenses are available in response to the needs of the occasion and the venue. The optional bayonet mount (POA-LNA-03) enables different lens types to be interchanged at will.

X–Y Keystone Correction

Even when circumstances prevent positioning of the projector directly in front of the screen, projection of natural-looking images can be achieved with vertical (maximum ±40 degrees) and horizontal (maximum ±10 degrees) keystone correction functions.

Up/Down Power Lens Shift

You can move the projected image up and down on the screen without physically moving the projector thanks to the power-driven lens shift. This makes it easy to center the image on screen ready for your presentation.

Full Input Panel and Monitor Out Signal Supported

In addition to a DVI (digital video interface) allowing projection of computer screen quality images are a monitor out (RGB) and a D-sub 15-pin (RGB or RGB SCART) socket. Connection flexibility is also enabled by sockets supporting HDCP, HDTV, and composite video connections to make these projectors useful for a myriad of applications.

Enhanced Remote Control Functions

Enhanced operability is realised by a new remote control featuring 8 remote control codes and independent cursor and input keys.

Improved OSM and GUI

The on-screen menu (OSM) now features more flexibility for simultaneous operation and monitoring of on-screen images. The graphical user interface (GUI) offers display in 12 languages and enables intuitive user-friendly operation.

Optical and Digital Zoom Functions

In addition to the 1.3x power-driven zoom focus, these projectors feature digital zoom functions that magnify a section of the screen image by up to 49 times.* You can also compress the screen image down to a maximum of 1/4 its original size* to accommodate your setup parameters. *Surface ratio.

Eco Mode

Eco mode* offers quiet 35dB-rated operation with low energy consumption. If quietness is a prime concern, there is no need to worry that loud bursts of fan activity will disturb the presentation.

*Brightness is approximately 80 percent that of normal levels.

Other Features

• On start • Presentation support features • USB and 8-pin mouse control port • Digital resizing • Rear/ceiling-mounted projection • Built-in stereo amplifier and speakers • Wireless/wired remote control with mouse functions and built-in laser pointer

Network Readiness for Greater Freedom of Expression

SANYO's revolutionary PJ-Net Organizer Plus module offers advanced tools for administering one or a series of projectors over a network for centralised control of large-scale presentations suited to advertising and public relations applications.

Dedicated connection terminal (projector side)

Example of POA-PN02 connection

Network Viewer Functions

Enables retrieval and auto-play of images from Ethernet-connected servers.

Multi-Control Function

With the multi-control function, a single computer can be used to set up and control up to 100 projectors at the same time without the need for any special software or peripheral devices. The multi-control function is switchable between 3 levels: control, viewer, and control/viewer.

E-mail Alert Function Sends Messages

With the E-mail Alert function, the PJ-Net Organizer Plus sends messages to registered E-mail addresses when an abnormality such as a lamp failure or power failure occur. Lamp-use time can also be used to automatically send messages to users and administrators as reminders regarding presentations and maintenance.

Web Management

Using a Web browser you can check on the condition of the projector or adjust the controls in the following ways.
Projector status: lamp-use time, projector use time, in-store condition, power, input information
Projector controls: power (on/off), input mode, PC, system, image, and other settings
Saving/loading of settings: input mode, system, image and screen settings can be stored or loaded

Automatic Timer ON/OFF Functions

External Device Control Functions

Control of Peripherals

PJ-Net Organizer Plus is equipped with an RS-232C serial communications port. This allows control of peripheral appliances that are similarly equipped with a serial port.*

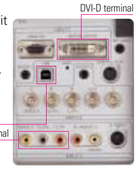
*Serial port setting required.
Special driver software, etc., may be needed (not provided with the POA-PN02)

PC Screen Upload and Project Function

Input Versatility

These projectors are equipped with an extensive array of input terminals to suit a range of projection sources. DVI-D is optimized for PC input. A USB port is included together with the control port. And there is a component input for high-definition signals*.

*Digital compression



Main Options

Fixed short-focus **LNS-W32***

Short-focus zoom **LNS-W31A***

Long-focus zoom **LNS-T31A***

Long-focus zoom **LNS-T32**

Optional Interchangeable Lenses

SANYO offers four optional lens types for these projectors: a fixed short-focus lens, a short-focus zoom lens, and tow long-focus zoom lenses. By replacing the original standard lens, you can adapt the projector to your needs.

*Requires POA-LNA-03 for attachment.

Lenses

Type	Fixed short focus	Short focus zoom		Long focus zoom		Long focus zoom	
Model	LNS-W32	LNS-W31A		LNS-T31A		LNS-T32	
Focal distance	f = 22.3 mm	f = 34–48 mm		f = 64–112 mm		f = 112–155 mm	
F value	F2.5	F2.5–F3.1		F2.0–F2.9		F2.1–F2.7	
Max. Diameter	ø175 mm	ø99 mm		ø99.5 mm		ø99.0 mm	
Weight	1.6 kg	1.7 kg		1.9 kg		1.5 kg	
Lens shift	1:1 (Fixed)	Approx. 10:0 – 1:1		Approx. 10:0 – 1:1		Approx. 10:0 – 1:1	
Zoom/Focus	Fixed Hand-operated	Motor driven 1.4x Motor driven		Motor driven 1.8x Motor driven		Motor driven 1.4x Motor driven	
Picture size \ Approx. throw distance*1	Throw distance	Max. Zoom	Min. Zoom	Max. Zoom	Min. Zoom	Max. Zoom	Min. Zoom
40"	—	1.0 m	1.4 m	1.8m	3.3 m	3.5 m	4.8 m
60"	—	1.5 m	2.2 m	2.7m	5.0 m	5.1 m	6.9 m
70"	1.2 m	1.8 m	2.5 m	3.2m	5.9 m	6.0 m	8.0 m
80"	1.3 m	2.0 m	2.9 m	3.7m	6.7 m	6.8 m	9.1 m
90"	1.5 m	2.3 m	3.3 m	4.2m	7.6 m	7.6 m	10.2 m
100"	1.7 m	2.5 m	3.6 m	4.7m	8.4 m	8.4 m	11.3 m
110"	1.8 m	2.8 m	4.0 m	5.1m	9.3 m	9.3 m	12.5 m
120"	2.0 m	3.1 m	4.4 m	5.6m	10.2 m	10.1 m	13.6 m
150"	—	3.8 m	5.5 m	7.1m	12.7 m	12.6 m	16.9 m
170"	—	4.4 m	6.2 m	8.0m	14.4 m	14.2 m	19.2 m
200"	—	5.1 m	7.3 m	9.5m	17.0 m	16.7 m	22.5 m
250"	—	6.4 m	9.2 m	11.9m	21.3 m	20.8 m	28.1 m
300"	—	7.7 m	11.0 m	14.3m	25.6 m	25.0 m	33.7 m
350"	—	9.0 m	12.9 m	16.7m	29.9 m	29.1 m	39.6 m
400"	—	10.3 m	14.7 m	19.1m	34.2 m	33.2 m	44.9 m

*1 Lens throw distances quoted here are subject to 3% variation.
• Performance may be affected outside the stack point range.
• Tool for lens replacement is included with the optional lens.

Real Colour Management

The optional Real Colour Management system centralizes control by allowing colour calibration to be easily accomplished from a computer keyboard.

Cables/Adapters

Products name	Model number	Notes
Computer connection cable kit	KA-CB-KIT	DOS/V cable (1.8 m, mini D-sub 15-pin, male-male type) Mac and PC-98 adapters (male-female type)
RGB extension cable	KA-MC-DB10	10 m length, mini D-sub 15-pin (male-female type)
Mac adapter	POA-MACAP	Mac adapter for use with included analog RGB cable, 13", 16", 19", 21" mode compatible
Mouse control cables	POA-MCMAC	Mac cable, 2.7m, mini DIN 8-pin (male), mini DIN 4-pin (male)
	POA-MCSRL	Serial cable, 2.7m, mini DIN 8-pin (male), mini D-sub 9-pin (female)
Mouse extension cable	POA-MC10	10 m length, mini DIN 8-pin (male), mini DIN 8-pin (female)

Special I/O adapters may be required for certain notebook computers.

Note: Comparative images used in this catalog are not actual projected images.